

ASAP

PRELIMINARY ISSUE

Work Order ID 62421

Wednesday, September 29, 2010 3:40:15 PM



Page 1

Item ID: D4176-1

Accept



Setup Start



Revision ID: PRELIM

Item Name: 429 Clamp, Top

Stop



Start Date: 9/29/2010 Start Qty: 1.00



Cust Item ID:

POSITIVE
RECALL

Required Date: 9/29/2010 Req'd Qty: 1.00



Customer:

Reference:

Approvals: Process Plan:

H

Date: 10/9/29

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr
----------	--------------

D4176	PA1
-------	-----

100	0.00	
-----	------	--

Waterjet	Memo	0.00	NB 10-4-30
----------	------	------	------------

FLOW CNC Waterjet

304 .000

1-Cut as per Dwg
Dwg Rev: PA1
Prog Rev: PA1

2-Deburr if necessary

(2)

110	QC2- Inspect parts off machine FAI/FAIB	0.00	
-----	---	------	--

QC	Memo	0.00	10/9-30
----	------	------	---------

Quality Control

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 62421

Page 2

Wednesday, September 29, 2010 3:40:15 PM

Item ID: D4176-1

Accept



Setup

Start



Revision ID: PRELIM

Stop



Item Name: 429 Clamp, Top

Start Date: 9/29/2010 Start Qty: 1.00



Cust Item ID:

Required Date: 9/29/2010 Req'd Qty: 1.00



Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run

Start



QC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

120

QC8- Inspect parts - second check

0.00 - measured to P91



QC

Quality Control

Dry only
8/10/04 (x2)

130

Form as per dwg

0.00



Brake NC

Brake NC

SB 10/04/04



140

QC5- Inspect part completeness to step on W/O

0.00 - measured to P91



QC

Quality Control

Dry only
Didn't test Fit on.
8/10/04 (x2)

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 62421

Wednesday, September 29, 2010 3:40:15 PM



Page 3

Item ID: D4176-1

Accept



Setup Start



Revision ID: PRELIM

Stop



Item Name: 429 Clamp, Top

Start Date: 9/29/2010 Start Qty: 1.00



Cust Item ID:

Required Date: 9/29/2010 Req'd Qty: 1.00



Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run

Start



QC:

Date:

SPC (Y/N):

Date:

Stop

**Sequence ID/
Work Center ID**

150

**Operation
Description**

Identify as per dwg & Stock Location:

**Set Up/
Run Hours**

0.00

Tool ID**Tool #****Plan
Code****Accept
Qty****Reject
Qty****Reject
Number****Insp.
Stamp**

Packaging

Packaging

Memo

0.00

160

**QC21- Final Inspection - Work Order Release**

0.00

QC

Quality Control

Memo

0.00

*A best fit Rev A 10/10/07
See WO 62529*

CR 10/10/07

*MF
10-11-15*

POSITIVE RECALLEFFECTIVE 10-09-30 AUTH URELEASED 10-11-12 DATE 10-11-12

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Page 1

Wednesday, September 29, 2010 3:40:19 PM

Work Order ID: 62421



Parent Item: D4176-1



Parent Item Name: 429 Clamp, Top

Start Date: 9/29/2010

Required Date: 9/29/2010

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev:A 10.09.29 new issue DD verf:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M304S14GA 		Purchased	No			100	sf	105.8108	0.0403	0.042421		1810-9-30	

304SS sheet .080

Location	Loc Qty	Loc Code
MAT20	105.8108	
113295	105.8108	113295

(2)

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

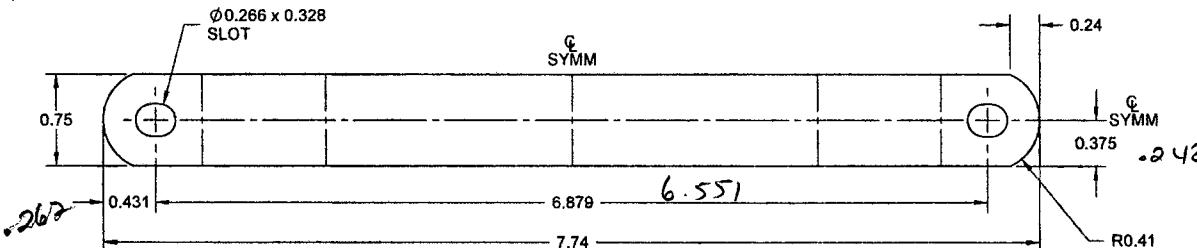
Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
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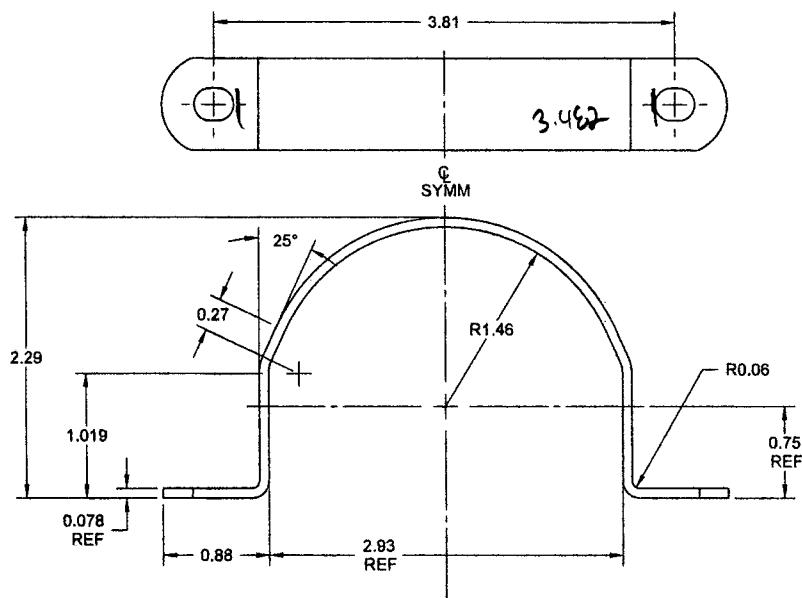
NOTE: Date & initial all entries

8 7 6 5 4 3 2 1

B3 .164

D4176-1F 429 TOP CLAMP FLAT PATTERN

SHOP COPY
RETURN TO
ENGINEER
UNCONTROLLED
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORKING
NO. 62-421-
8/10/9-29

D4176-1429 CLAMP, TOP
(MAKE FROM D4176-1F)**PRELIMINARY ISSUE**

10.09.27

DESIGN		DART AEROSPACE LTD
DRAWN		HAWKESBURY, ONTARIO, CANADA
CHECKED		DRAWING NO.
MFG. APPR.		D4176 REV. PA1
APPROVED		SHEET 2 OF 3
DE APPR.		TITLE
DATE	10.09.27	SCALE NTS

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NOT TO BE USED FOR ANY OTHER PURPOSE OR DISCLOSED TO ANY OTHER PERSON WITHOUT
WRITTEN PERMISSION FROM DART AEROSPACE LTD.

8 7 6 5 4 3 2 1

1

A

8 7 6 5 4 3 2 1

D

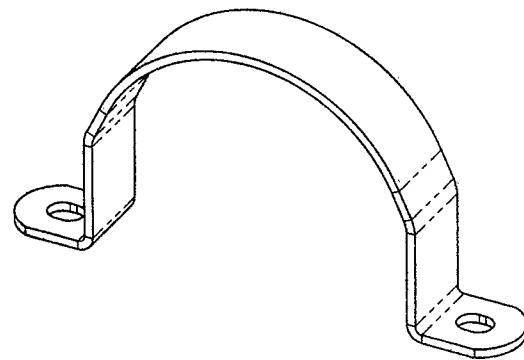
D

C

C

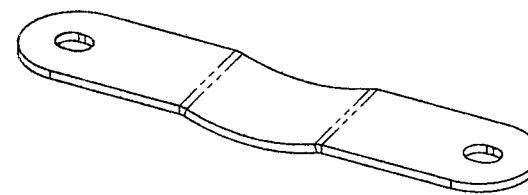
B

B



D4176-1 429 CLAMP, TOP

3



D4176-3 429 CLAMP, BOTTOM

PRELIMINARY ISSUE

10.09.27

NOTES:

- 1) MATERIAL: AISI 304/316 STAINLESS STEEL SHEET ANNEALED 2B FINISH, 14 GAUGE (0.078 THICK)
PER AMS 5513 (304) OR 5524 (316) OR ASTM A240 OR ASME SA240
REF. DART SPEC. M304S14GA
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D4176-1" PER QSI 044 6.1
- 7) WEIGHT:
- D4176-1 = 0.12 lbs
- D4176-3 = 0.08 lbs

8 7 6 5 4 3 2 1

PA1	NEW ISSUE	MB	10.09.27
REV.	DESCRIPTION	BY	DATE
DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	
MFG. APPR.		REV. PA1	
APPROVED		D4176	SHEET 1 OF 3
DE APPR.		TITLE	SCALE
DATE	10.09.27	429 CLAMP	NTS

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NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT
WRITTEN PERMISSION FROM DART AEROSPACE LTD.

DART AEROSPACE LTD	Work Order:	62421
Description: 409 Clamp Top	Part Number:	D4176-1
Inspection Dwg: D4176-1 Rev: 0A1		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

X First Article Prototype

Measured by:	HB	Audited by:	S	Prototype Approval:	N/A
Date:	10-9-30	Date:	10/10/01	Date:	N/A
	inspected by PAI Dmy only				

Receiving Report

Date: 9/4/27

Batch No: M113298

Supplier: magno

Dart P/O: 10809

Packing Slip: Yes No
 Invoice: Yes No
 Receipt: Cash Cr

Release Note Attached: Yes No N/A
 Waybill Attached: Yes No N/A
 Shipment Complete: Yes No N/A
 QC6 Inspection N/A
 Work Order orlubos N/A

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments

Initials of receiver (if shipment OK) Level 12 CH

Production/Admin: 9/1/30
 Date 9/1/30
 Received/Costing Initial CH

Location _____

Purchase Order Receipt Listing

Page 1 of 1

November 30, 2009 7:51:48 AM

All amounts are calculated in domestic currency.

All Vendors PO ID PO10809 Receipt Dates from 11/30/2009 to 11/30/2009 All Line Item Types

All Item ID/GL/WOs All Rec. Employees All Currencies

Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt	
VendorID\Vendor Name	VC-MAG002	Magna Stainless										
PO10809	1		M304S14GA	sf		11/24/2009 11/30/2009		160.0000	\$7.50	0.0000	0	\$1,200.00
CAD	No		304SS sheet .080	sf		160.0000	Stores		\$1,200.00	0.0000	0	
			113295									
	2		M304S16GA	sf		11/24/2009 11/30/2009		320.0000	\$5.31	0.0000	0	\$1,700.00
	No		304/316 Sheet .063	sf		320.0000	Stores		\$1,700.00	0.0000	0	
			113295									
	3		M304R1.750	f		11/24/2009 11/30/2009		12.1000	\$20.58	0.0000	0	\$249.05
	No		304 ROUND BAR	f		12.0000	Stores		\$249.05	0.0000	0	
			1.750									
			113295									
	4		M303R0.750	f		11/24/2009 11/30/2009		12.1000	\$3.83	0.0000	0	\$46.38
	No		303 Round Bar 0.750	f		12.0000	Stores		\$46.38	0.0000	0	
			113295									

Total Received Quantity:	504.2000
Total Qty to Inspect (PO U/M):	0.0000
Total Reject Quantity:	0.0000
Total Receipt Value:	\$3,195.44
Total Balance Due Quantity:	0.0000

MAGNA**Magna Stainless**

5775 Kieran St, Saint-Laurent, Quebec H4S 0A3
 Phone: (514) 339-1211 Watts: 1-800-363-6646 Fax: (514) 339-1105

SOLD TO:
DART AEROSPACE LTD
 1270 ABERDEEN STREET

HAWKESBURY , ON
 K6A 1K7
 Contact: CHANTAL

SHIP TO:
DART AEROSPACE LTD
 1270 ABERDEEN STREET

HAWKESBURY , ON
 K6A 1K7

Ship Terms: PREPAID

**PACKING LIST**

Page 1 of 1

I020078

SPECIAL INSTRUCTIONS

Currency	Sales Person	Customer Phone	Customer Fax	Customer PO
CANADIAN DOLLARS	ERYCK BLAIS	(613) 632-5200	(613) 632-1053	P010809
Sales Order	Terms	Ship Via	Date Ordered	Date Required
W021806	NET 30 DAYS	NIR:R-557065-1	11/20/09	11/27/09

Ordered	Back Ordered	Unit	Description	Bundle #	Heat #	Shipped
1		PC	STAINLESS ROUNDS SRB 304 1-3/4" x R/L	12'10"	100 LB / 1 PC	L029520
1		PC	SRB 303 3/4" x R/L	12'1"	20 LB / 1 PC	L031096
5		PC	STAINLESS SHEET SSH 304 2B 14ga x 48" x 96"		525 LB / 5 PC	C030389
10		PC	MUST USE HT # 829393 SSH 304 2B 16ga x 48" x 96"		840 LB / 10 PC	A030388
Bundles: 1	Skids: 1					1,485 LB
				Approx	Weight:	

Received by: _____ Date: _____ Signature: _____

PC 9/11/09

P005349 - 829393

NOTICE OF SHIPMENT/
PACKING LIST



AL 6168-3 908

CERTIFICATE OF TEST

CUST. ORD. NO. & DATE

05349

FORMS DISTRIBUTION
SOLD TO

1 SHIP TO SPEC
SOLD TO
MAGNA STAINLESS
5775 KIERAN ST.
QUEBEC CANADA H4S 0A3
SAINT-LAURENT

CUST. CODE	ACCEPTING MILL	SHIPPER NO.	PRODUCT CODE	MILL ORDER NUMBER	DATE SHIPPED
574738	VANDERGRIFT, PA.	427038	13020102060000	30-069-202	08/06/09 INVOICE

REPEAT ORDER	ITEM NO.	PRIME QTY	SEC. QTY
94045-0	28	7219.14.0000	

DSO	DSO	COILEX
20		1450 GRAHAM BELL QUEBEC ZIP CODE: J4B 6H5 BOUCHERVILLE CN

SHIP TO

S
09/11/30

GRADE AND SPECIFICATIONS
ALLEGHENY STAINLESS STEEL TYPE 304 SHEET
(ASTM-A-480-09)

CARRIER - CUSTOMER TRUCK

C R COILS ANNEALED 2B FIN 3 EDGE (ASTM-A-240-09A)

(ASTM-A-370-09)

ITEM PCS DIMENSIONS W/G/L

001 1 48./.075/2021
C CUST IDENTITY 304B075X48
1 SKID

HEAT #	COIL #	TEST #	GROSS	TARE	NET	THEO	TAG #/ CD	SKID #
829393	07109N172	8763075	21130	50	21080		651551	
			21130	50	21080			

ORDER REMARKS: EXW - EXCEPT VAT AND OTHER APPLICABLE LOCAL TAXES WHICH ARE THE RESPONSIBILITY OF THE BUYER

TYPE HEAT/TEST
HEAT 829393

--C--- --MN-- --P--- --S--- --SI-- --CR-- --NI-- --N---
.05 .97 .033 .0005 .44 18.2 8.1 .07

ITEM TEST NO
001 8763075

YIELD PSI *	TENSILE PSI	ELONG IN 2"	% R/A	HARDNESS	BEND NR	GRAIN SIZE NR	HARDENABILITY NR
T 48000.	92500.	55.	NR	83.HRBW	NR	NR	NR

* Y.S. BY 0.2% OFFSET METHOD

NR = DATA NOT REQUIRED

GRADE VERIFICATION WAS CARRIED OUT SPECTROSCOPICALLY

PAGE 01 - CONTINUED ON PAGE 02

08/06/09 11:37:26

CONSIGNEE: Please Note-This consignment was turned over to carrier in first class condition, being correctly loaded, at which time our responsibility for loss or damage in shipment ceased. For your protection please examine shipment as it arrives. If any shortage or damage is discovered, have a full description made by transportation agent on waybill before signing.

Material Safety Data Sheets for this product have been supplied to your Purchasing Department. For an additional copy phone 724-226-6577. CAUTION: Processing that makes fumes, dust, or solutions may cause lung disease. See Material Safety Data Sheets for further information.

WARNING
Les fiches d'information-sécurité de ce produit ont été fournies à votre département chargé des achats. Pour obtenir des exemplaires supplémentaires veuillez téléphoner au numéro suivant 724-226-6577. Attention: les traitements entraînant la production de vapeurs, poussières, ou solutions peuvent être cause de maladies pulmonaires. Pour plus de renseignements se référer aux fiches d'information-sécurité.

The above is a true copy of data on file. The material and test results conform to the sales contract and specification(s) as set forth in Allegheny Ludlum's Order Acknowledgement.

Tracy McFerland
Director, Corporate Quality Assurance

NOTICE OF SHIPMENT/
PACKING LIST



AL 6168-3 808

CERTIFICATE OF TEST

CUST. ORD. NO. & DATE	CUST. CODE	ACCEPTING MILL	SHIPPER NO.	PRODUCT CODE	MILL ORDER NUMBER	DATE SHIPPED
05349 FORMS DISTRIBUTION SOLD TO 1	06/05/09 574738	VANDERGRIFT, PA.	427038 REPEAT ORDER 94045-0 RATE 28	GOVT CONTRACT PRIM. 7219.14.0000	13020102060000 MATT.	30-069-202 SHIPPING LOCATION PA 668451
SOLD TO MAGNA STAINLESS 5775 KIERAN ST. QUEBEC CANADA H4S 0A3 SAINT-LAURENT	DSO 20	DSO	COILEX 1450 GRAHAM BELL QUEBEC ZIP CODE: J4B 6H5 BOUCHERVILLE CN			08/06/09 INVOICE

GRADE AND SPECIFICATIONS

ALLEGHENY STAINLESS STEEL TYPE 304 SHEET C R COILS ANNEALED 2B FIN 3 EDGE (ASTM-A-240-09A) (ASTM-A-370-09)
(ASTM-A-480-09)

THIS CERTIFICATE OF TEST SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN APPROVAL OF THE COMPANY. THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW. MATERIAL WAS MANUFACTURED IN ACCORDANCE WITH THE ALC QUALITY MANUAL REVISION 17 DATED 05/12/2008. ALC HOLDS SEVERAL QUALITY CERTIFICATIONS THAT INCLUDE ISO-9001. DIN EN 10204:2005 - 3.1. ALLEGHENY LUDLUM IS APPROVED AS A MANUFACTURER ACCORDING TO AD-MERK BLATT WO/TRD100 AND THE PRESSURE EQUIPMENT DIRECTIVE PED 97/23/EC. TESTING WAS PERFORMED AT ALC NADCAP AND ISO/IEC 17025 APPROVED LABORATORIES LOCATED AT NATRONA HEIGHTS, BRACKENRIDGE, LATROBE, AND MIDLAND, PA FACILITIES OR A NADCAP AND ISO/IEC 17025 ACCREDITED LABORATORY.

ALLEGHENY LUDLUM PERFORMS CHEMICAL ANALYSIS BY THE FOLLOWING TECHNIQUES:

C,S BY COMBUSTION/INFRARED

N,O,H BY INERT FUSION/ THERMAL CONDUCTIVITY

MN,P,SI,CR,NI,MO,CU,CB,CO,V BY WDXRF

B BY OES

AL AND TI (>=0.10%) BY WDXRF, OTHERWISE BY OES

PB,BI,AG BY GFAA

<<<<<< FOR ACCESS TO ONLINE CERTIFICATES OF TEST >>>>>>
<<<<<< REGISTER AT WWW.ALCEXTRA.COM >>>>>>

PAGE 02 - FINAL PAGE.

08/06/09 11:37:26

CONSIGNEE - Please Note - This consignment was turned over to carrier in first class condition, being correctly loaded, at which time our responsibility for loss or damage in shipment ceased. For your protection please examine shipment as it arrives. If any shortage or damage is discovered, have a full description made by transportation agent on waybill before signing.

Material Safety Data Sheets for this product have been supplied to your Purchasing Department. For an additional copy phone 724-226-6577. CAUTION: Processing that makes fumes, dust, or solutions may cause lung disease. See Material Safety Data Sheets for further information.

WARNING
Les fiches d'information-sécurité de ce produit ont été fournies à votre département chargé des achats. Pour obtenir des exemplaires supplémentaires veuillez téléphoner au numéro suivant 724-226-6577. Attention: les traitements entraînent la production de vapeurs, poussières, ou solutions peuvent être cause de maladies pulmonaires. Pour plus de renseignements se référer aux fiches d'information-sécurité.

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Tracy McFarland,
Director, Corporate Quality Assurance

P005349_829394

**NOTICE OF SHIPMENT/
PACKING LIST**



AL 6168-3 908

CERTIFICATE OF TEST

CUST. ORD. NO. & DATE				CUST. CODE	ACCEPTING MILL	SHIPPER NO.	PRODUCT CODE	MILL ORDER NUMBER	DATE SHIPPED
05349 FORMS DISTRIBUTION				06/05/09 574738	VANDERGRIFT, PA.	427038	13020102060000	30-069-187	08/06/09
SOLD TO	1	SHIP TO	SPEC		REPEAT ORDER	DO RATE	PRI ORITY	GOVT CONTRACT	INVOICE
SOLD TO MAGNA STAINLESS 5775 KIERAN ST. QUEBEC CANADA H4S 0A3 SAINT-LAURENT				94045-0	[28]	7219.14.0000	1121 VANDERGRIFT	PA	668450
				PRIME	SEC.	SHIP TO			
				DSO	DSO	COILEX			
				20		1450 GRAHAM BELL			
						QUEBEC ZIP CODE: J4B 6H5			
						BOUCHERVILLE CN			

GRADE AND SPECIFICATIONS CARRIER - CUSTOMER TRUCK
ALLEGHENY STAINLESS STEEL TYPE 304 SHEET C R COILS ANNEALED 2B FIN 3 EDGE (ASTM-A-240-09A) (ASTM-A-370-09)
(ASTM-A-480-09)

ITEM	PCS	DIMENSIONS	W/G/L	HEAT #	COIL #	TEST #	GROSS	TARE	NET	THEO	TAG #/ CD	SKID #
001	1	48./.060/2149.		829394	07099N793	8763049	20670	50	20620		651358	
C CUST IDENTITY	304B060X48											
	1	SKID					20670	50	20620			

ORDER REMARKS: EXW - EXCEPT VAT AND OTHER APPLICABLE LOCAL TAXES WHICH ARE THE RESPONSIBILITY OF THE BUYER

TYPE HEAT/TEST --C-- --MN-- --P-- --S-- --SI-- --CR-- --NI-- --N--
HEAT 829394 .06 .95 .034 .0003 .47 18.2 8.1 .06

ITEM TEST NO	YIELD PSI *	TENSILE PSI	% ELONG IN 2"	% R/A	HARDNESS	BEND	GRAIN SIZE	HARDENABILITY
001 8763049				NR	83.HRBW	NR	NR	NR
	T 45500.	94000.	58.		83.HRBW			
* Y.S. BY 0.2% OFFSET METHOD								

NR = DATA NOT REQUIRED
GRADE VERIFICATION WAS CARRIED OUT SPECTROSCOPICALLY

PAGE 01 - CONTINUED ON PAGE 02

08/06/09 11:37:26

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RNING
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Tracy McFarland -
Director, Corporate Quality Assurance

NOTICE OF SHIPMENT/
PACKING LIST



AL 8168-3 908

CERTIFICATE OF TEST

CUST. ORD. NO. & DATE			CUST. CODE	ACCEPTING MILL	SHIPPER NO.	PRODUCT CODE	MILL ORDER NUMBER	DATE SHIPPED
05349	FORMS DISTRIBUTION		106/05/09	574738	VANDERGRIFT, PA.	427038	13020102060000	30-069-187
SOLD TO	SHIP TO	SPEC		REPEAT ORDER 94045-0	DO RATE 28	PRI- ORITY 20	GOVT CONTRACT 7219.14.0000	SHIPPING LOCATION VANDERGRIFT PA 668450
SOLD TO				PRIME	SEC.		SHIP TO	
MAGNA STAINLESS 5775 KIERAN ST. QUEBEC CANADA H4S 0A3 SAINT-LAURENT				DSO	DSO		COILEX 1450 GRAHAM BELL QUEBEC ZIP CODE: J4B 6H5 BOUCHERVILLE CN	

GRADE AND SPECIFICATIONS
ALLEGHENY STAINLESS STEEL TYPE 304 SHEET C R COILS ANNEALED 2B FIN 3 EDGE (ASTM-A-240-09A) (ASTM-A-370-09)
(ASTM-A-480-09)

THIS CERTIFICATE OF TEST SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN APPROVAL OF THE COMPANY. THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW. MATERIAL WAS MANUFACTURED IN ACCORDANCE WITH THE ALC QUALITY MANUAL REVISION 17 DATED 05/12/2008. ALC HOLDS SEVERAL QUALITY CERTIFICATIONS THAT INCLUDE ISO-9001. DIN EN 10204:2005 - 3.1. ALLEGHENY LUDLUM IS APPROVED AS A MANUFACTURER ACCORDING TO AD-MERK BLATT WO/TRD100 AND THE PRESSURE EQUIPMENT DIRECTIVE PED 97/23/EC. TESTING WAS PERFORMED AT ALC NADCAP AND ISO/IEC 17025 APPROVED LABORATORIES LOCATED AT NATRONA HEIGHTS, BRACKENRIDGE, LATROBE, AND MIDLAND, PA FACILITIES OR A NADCAP AND ISO/IEC 17025 ACCREDITED LABORATORY.

ALLEGHENY LUDLUM PERFORMS CHEMICAL ANALYSIS BY THE FOLLOWING TECHNIQUES:
C, S BY COMBUSTION/INFRARED
N, O, H BY INERT FUSION/THERMAL CONDUCTIVITY
Mn, P, Si, Cr, Ni, Mo, Cu, CB, Co, V BY WDXRF
B BY OES
Al AND Ti (>=0.10%) BY WDXRF, OTHERWISE BY OES
PB, Bi, Ag BY GFAA

<<<<<< FOR ACCESS TO ONLINE CERTIFICATES OF TEST >>>>>>
<<<<<< REGISTER AT WWW.ALCEXTRA.COM >>>>>>

PAGE 02 - FINAL PAGE.

08/06/09 11:37:26

CONSIGNEE - Please Note - This consignment was turned over to carrier in first class condition, being correctly loaded, at which time our responsibility for loss or damage in shipment ceased. For your protection please examine shipment as it arrives. If any shortage or damage is discovered, have a full description made by transportation agent on waybill before signing.

Material Safety Data Sheets for this product have been supplied to your Purchasing Department. For an additional copy phone 724-226-6577. CAUTION: Processing that creates fumes, dust, or solutions may cause lung disease. See Material Safety Data Sheets for further information.

WARNING
Les fiches d'information-sécurité de ce produit ont été fournies à votre département chargé des achats. Pour obtenir des exemplaires supplémentaires veuillez téléphoner au numéro suivant 724-226-6577. Attention: les traitements entraînant la production de vapeurs, poussières, ou solutions peuvent être cause de maladies pulmonaires. Pour plus de renseignements se référer aux fiches d'information-sécurité.

The above is a true copy of data on file. The material and test results conform to the sales contract and specification(s) as set forth in Allegheny Ludlum's Order Acknowledgement.

Tracy McFarland
Director, Corporate Quality Assurance



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID: PO10809

Purchase Order Date: 11/20/09

PO Print Date: 11/20/09

Page Number 1 of 2

Order From : VC-MAG002

MAGNA STAINLESS
5775 RUE KIERAN
ST LAURENT, QC H4S 0A3
CA

FAXED
COTILLON

Contact Name
Vendor Phone 800 363 6646
Vendor Fax 514 339 1105
Vendor Account Nbr

Buyer Chantal Lavoie
Requisition Nbr
Tax Resale Nbr 10127-2607
Terms Net 30
Currency CAD
FOB

Ship To : DART AEROSPACE LTD 1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Line Nbr	Reference Revisión ID	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
Vendor Part Number							
1	M304S14GA	304SS sheet .080	11/24/09 Yes	✓ 160.00 sf	Yours ppd	\$7.5000	\$1,200.00
Special Inst: MATERIAL: AISI 304/316 SS SHEET ANNEALED 2B FINISH ASPER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240							
2	M304S16GA	304/316 Sheet .063	11/24/09 Yes	✓ 320.00 sf	Yours ppd	\$5.3125	\$1,700.00
3	M304R1.750	304 ROUND BAR 1.750	11/24/09 Yes	12.00 f NEC 1210 Loyalty	Yours ppd	\$20.5830	\$247.00
Special Inst: AS ABOVE							
Special Inst: MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 (NOTE: 303 NOT ACCEPTABLE)							

No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required when applicable

Change Nbr: 1

Change Date: 11/20/09



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO10809

Purchase Order Date 11/20/09
PO Print Date 11/20/09

Page Number 2 of 2

Order From : VC-MAG002

MAGNA STAINLESS
5775 RUE KIERAN
ST LAURENT, QC H4S 0A3
CA

Contact Name	Buyer	Chantal Lavoie
Vendor Phone	Requisition Nbr	10127-2607
Vendor Fax	Tax Resale Nbr	Net 30
Vendor Account Nbr	Terms	CAD
	Currency	
	FOB	

4	M303R0.750	303 Round Bar 0.750	11/24/09	✓ 12.00	Yours ppd	\$3.8333	\$46.00
				Yes	f Nrc 10-10	10/27	

Special Inst: MATERIAL: AISI 303 ROUND BAR
(NOTE: AISI 304/316 NOT ACCEPTABLE)

PO Total: \$3,193.00

MATERIAL CERTIFICATION
REQ'D UPON DELIVERY

No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required when applicable

Change Nbr: 1

Change Date: 11/20/09

8 7 6 5 4 3 2 1

D

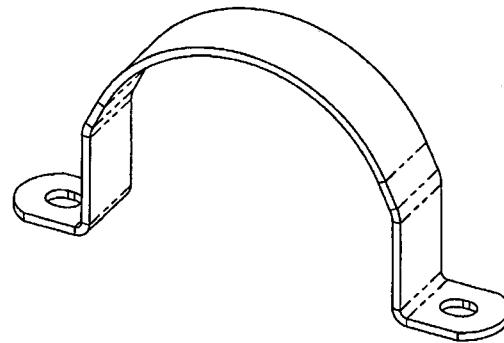
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C

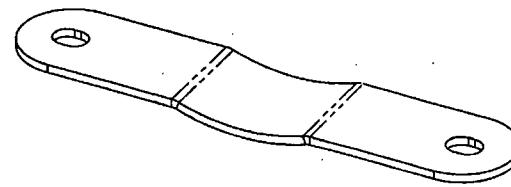
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B

B



D4176-1 429 CLAMP, TOP



D4176-3 429 CLAMP, BOTTOM

- NOTES:
1) MATERIAL: AISI 304/316 STAINLESS STEEL SHEET ANNEALED 2B FINISH, 14 GAUGE (0.078 THICK)
PER AMS 5513 (304) OR 5524 (316) OR ASTM A240 OR ASME SA240
REF. DART SPEC. M304S14GA
2) FINISH: NONE
3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
4) UNITS: INCHES UNLESS OTHERWISE NOTED
5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
6) IDENTIFICATION: IDENTIFY WITH DART P/N "D4176-X" PER QSI 044 6.1
7) WEIGHT:
- D4176-1 = 0.12 lbs
- D4176-3 = 0.08 lbs

8 7 6 5 4 3 2 1

REV.	NEW ISSUE	MB	10.09.27
DESCRIPTION		BY	DATE
DESIGN	1b		
DRAWN			
CHECKED	X		
MFG. APPR.	X		
APPROVED	X		
DE APPR.	X		
DATE	10.09.27	SCALE	NTS

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO. D4176 REV. A
SHEET 1 OF 3
TITLE 429 CLAMP
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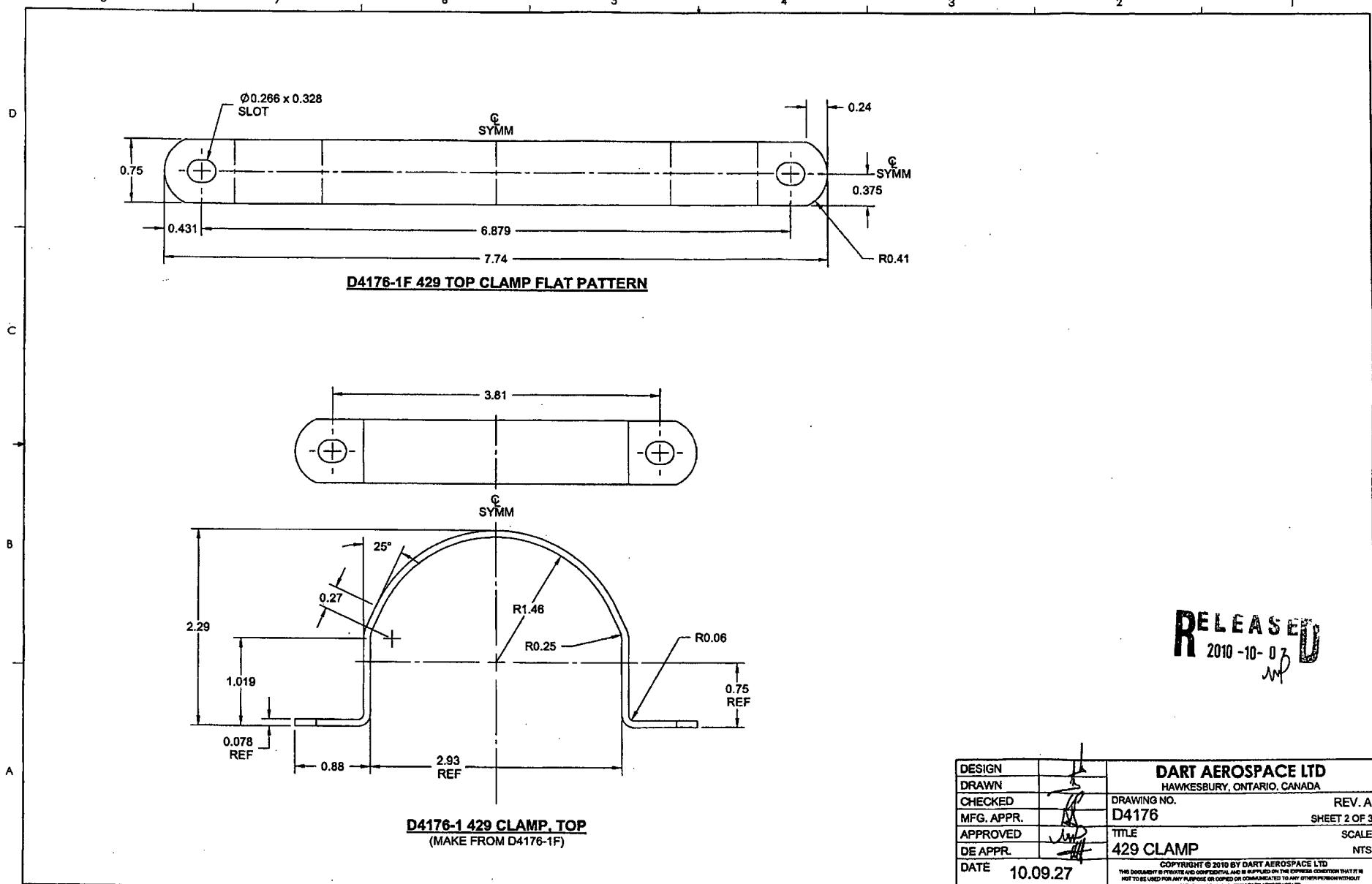
RELEASED
2010-10-07
MF

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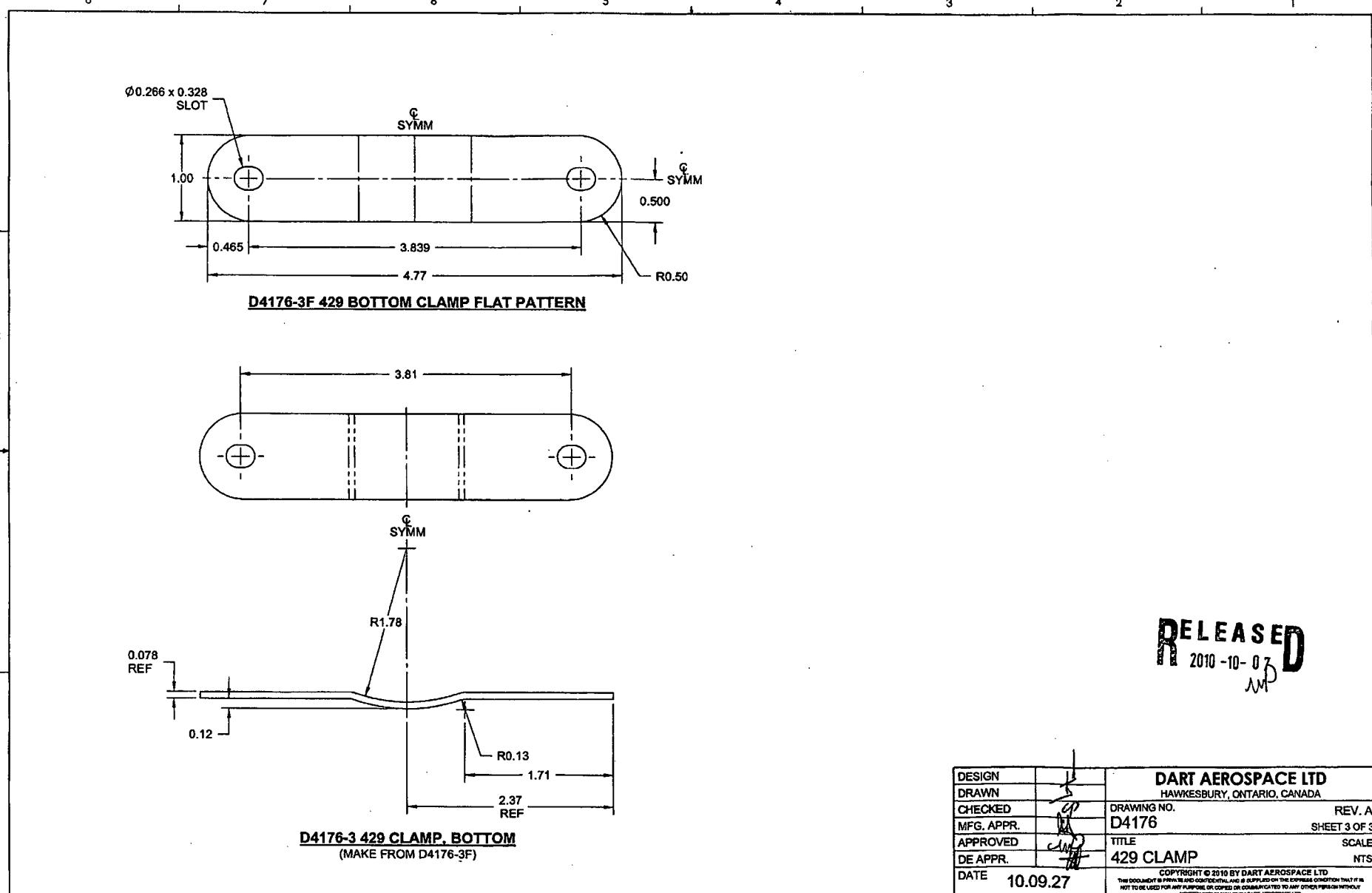
A

1

8 7 6 5 4 3 2 1



8 7 6 5 4 3 2 1



DESIGN	<i>[Signature]</i>	DART AEROSPACE LTD
DRAWN	<i>[Signature]</i>	HAWKESBURY, ONTARIO, CANADA
CHECKED	<i>[Signature]</i>	DRAWING NO. REV. A
MFG. APPR.	<i>[Signature]</i>	D4176 SHEET 3 OF 3
APPROVED	<i>[Signature]</i>	TITLE SCALE
DE APPR.	<i>[Signature]</i>	429 CLAMP NTS
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